AN Galy Rause

# ACCOUNT

OF THE

SCARLET FEVER

AND
SORE THROAT,

QR

SCARLATINA ANGINOSA;

PARTICULARLY AS IT APPEARED AT BIRMINGHAM IN THE YEAR 1775.

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By WILLIAM WITHERING, M. D.

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## ADVERTISEMENT.

THE Author wishes it to be understood, that whatever is advanced in the following pages, is founded upon his own observations, except where the contrary is expressly mentioned. In order to make the pampilet useful, it was necessary to publish it speeding: this circumstance he pleads in excuse for small Errors, conscious that no great ones will be found.

BIRMINGHAM, ist January, 1779.



OF THE SCARLET PEYER

### SCARLET FEVER,

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## SORE THROAT,

- As it appeared at Birmingham, in the Year 1778;

areas which is pulled being the lamaer

Birmingham, about the middle of May, and in the beginning of June was frequent in many of the towns and villages in the neighbourhood. It was preceded by some cases of the true ulcerated fore throat, and accompanied in its course throat, and accompanied in its course throat, the summer by the chin-cough, the measles, the small-pox, and several instances of the true quinfy.

It continued in all its force and frequency to the end of October, varying however in some of its symptoms

appliedly because the former were more

as the air grew colder. In the beginning of November it was rarely
met with, but towards the middle of
that month, when the air became
warmer, it increased again, and in
some measure resumed those appearances which it possessed in the summer
months, but had lost during the cold
winds in October.

of May, and in the beet

Subjects.

It affected children more than adults; but feldom occurred in the former under two years of age, or in the latter when more than fifty. In children the number of boys and girls that suffered from it was nearly equal, but in adults the number of female patients confiderably exceeded that of the male; probably because the former were more employed in attendance upon the fick, and consequently more exposed to the infection.

sidem as all and some

On the first seizure the patients seel Mode of an unusual weariness, or inaptitude to motion; a dejection of spirits, and a slight soreness or rather stiffness in the throat; with a sense of straitness in the muscles of the neck and shoulders as if they were bound with cords. In a sew hours chilly fits take place, generally alternating with slushing heat; but at length the heat prevails altogether. The patients now complain of slight head-ache; and transitory sits of sickness. They pass a restless night, not so much from pain, as from want of inclination to sleep.

The next day the foreness in the Second day, throat increases, and they find a difficulty in swallowing, but the difficulty seems less occasioned by the pain excited in the attempt, or by the strait-

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ness

#### OF THE SCARLET FEVER

ness of the passage, than by an inability to throw the necessary muscles into action. A total difrelish to food takes place, and the fickness frequently arises to a vomiting. The breathing is short and often interrupted by a kind of imperfect figh. The skin feels hot and dry, but not hard; and the patients experience frequent, small, pungent pains, as if touched with the point of a needle. Towards evening the heat and restlessness increase; the breath is hot and burning to the lips; thirst makes them wish to drink, but The tendency to fickness, and the exertions necessary to frequent deglutitions are fo unpleasant, that they seldom care to drink much at a time. This night is passed with still greater inquietude than the former. In the Third day morning the face, neck, and breaft, appear redder than usual; in a few hours

hours this redness becomes universal, and increases to such a degree of intensity, that the face, body, and limbs, resemble a boiled lobster in colour, and are evidently swollen. Upon pressure the redness vanishes, but soon returns again. The skin is smooth to the touch, nor is there the least appearance of pimples or pustules. The eyes and nostrils partake more or less of the general redness; and in proportion to the intensity of this colour in the eyes, the tendency to delirium prevails.

The top giodes are how will, at the

offeelions

Things continue nearly in this state Scarlet conformation or three days longer, when nishes the intense scarlet gradually abates, a brown colour succeeds, and the skin becoming rough, peels off in small branny scales. The tumesaction subsides at the same time, and the parameters.

A 3

OF THE SCARLET FEVER
tients gradually recover their firength
and appetite.

that the face, body, and health release

During the whole course of the Fever, the pulse is quick, small and uncommonly seeble. The bowels regular in their discharges. The urine small in quantity, but scarcely differing in appearance from that of a person in health. The submaxislary glands are generally enlarged, and rather painful when pressed by the singers.

The tongue is red and moist, at the end and at the sides, but drier in the middle, and more or less covered with a yellowish brown mucus. The velum pendulum palati, the uvula, the tonsis, and the guilet as far as the eye can reach, partake the general redness and tumesaction. I never saw any real ulceration in these parts, but sometimes collections

allowed to definite a prevalla-

#### AND SORE THROAT.

collections of thick mucus, particularly on the back of the cefophagus, greatly refembling the specks or floughs in the putrid Sore Throat, but thefe are eafily washed away by any common gargle. - After the Fever ceases, it is not uncommon to have abfeeffes form on Abfeeffes. one or both fides of the neck under the ears, but the matter eafily discharges itself through the ruptured teguments; and they heal in a few days without much troubles us shows with think

The above is a picture of the difeafe in its most usual appearance; but it too frequently assumes a much more fatal form a cicar anough A ? A

ed matter diffinarges in grentiquantities,

kinds of food, and examine angalinels

In children, the delirium commences Dangerous fymptoms in a few hours after the first feizure in children. The flesh is intensely hot: the scarlet colour appears on the first or second chiw A 4

day

to refembling the facels of flooght in

In others who furvive this rapid termination, when the scarlet colour turns to brown, and you would expect their recovery, the pulse still remains feeble and quick, the skin becomes dry and harsh, the mouth parched, the lips chopped and black; the tongue hard, dry and dark brown, the eyes heavy and funk; they express an aversion to all kinds of food, and extreme uneafiness upon every the least motion or diffurbance. Thus they lie for feveral days; nothing feeming to afford them any relief. At length a clear amber coloured matter discharges in great quantities from the notirils, or the ears, or both, and continues fo to discharge for many days. Sometimes this discharge has more the appearance of pus, mixed VAD AA with

### AND SORE THROAT

with mucus. Under these circumstances when the patients do recover, it is very slowly; but they generally linger for a month or six weeks from the first attack, and die at length of extreme debility.

tend to this circumllance, as it greatly

In adults, the rapidity of the fever, In adults, the delirium, &c. is such that they die upon the fourth or fisch day, especially if a purging supervenes. Some survive to the eighth, or to the eleventh day; in all these the throat is but little affected: the eyes have an uncommon red appearance, not that streaky redness which is evidently occasioned by the vessels of the sornea being injected with red blood, but an equable shining redness, resembling that which we remark in the eye of a ferret\*. But notwith-standing this morbid appearance in the

VASV EINDO Mufiela furo. LINK ordit colles

eye

eye, the strongest light is not offensive. This appearance may often be discovered, by listing up the upper eyelid, some hours before it shews itself in the part of the eye that is usually visible, and it is of some consequence to attend to this circumstance, as it greatly influences the event of the case.

when delived me Secreta liber above they die

ed above, there are frequently small circular spots of a livid colour about the breast, knees and elbows. The patients are extremely restless, clamourous, and desirous to drink; but after swallowing one or two mouthfuls, upon taking another, seem to forget to swallow, and let it run out at the corners of the mouth; whilst others spurt it out with considerable force, and are very angry if urged to drink again. In these cases, the scarlet colour appears very soon

foon after the attack, but in an unfettled irregular manner; large blotches of red, and others of white intermixed and often changing places. The pulse from the very beginning so quick, so seeble, and so irregular, that it is hardly possible to count it for half a minute at a time.——It is needless to add, that the greater part of those who laboured under these dreadful symptoms died. A few recovered, and others sell into a state of debility bordering upon ideotism, from which they were rescued by time, and generous living.——

In one patient, a man, the jaw was particular for perfectly locked upon the third day, that it was impossible to get any thing down his throat; and he died early upon the fifth day. In one man, when the scarlet of the skin was turning brown, several white blisters arose

Thefe were they appearances during

arose upon different parts of his hands and feet, which when cut open appeared quite dry; but in a boy where similar blissers appeared, some of which were cut in a sew hours afterwards, a thin pellucid watery sluid was discharged. In this case too the scarlet colour of the skin, the second day after its appearance, changed to a dark lead, or rather violet colour. I have been told of three instances, in which the defquamation was so complete, that even the nails separated from the singers.

Autumnal appearances.

These were the appearances during the hot months, but in the month of October, when the air became colder, the scarlet colour of the skin was both less frequent and less permanent. Many patients had no appearance of it at all, whilst others, especially adults, had a sew very minute red pimples, crowned with

time, and senerous living

with white pellucid heads, but thefe only appeared in the parts where the fkin is most tender. The inside of the throat was very considerably tumefied. fo as to render deglutition painful and difficult; its colour a dull red, fometimes tending to a livid. This affection of the fauces in some patients seemed to extend down the gullet to the stomach, and was accompanied with painful efforts to vomit, particularly whenever any thing was fwallowed: in others it spread itself down the windpipe to the lungs, as was evident from the cough, the strait breathing, and other peripneumonic symptoms. And in o-, thers again, its progress along the Eustachian tube was indicated by sharp pains in the ear. The eyes had less of that redness described before, but still a flight tinge of it was visible, together with the shining watery appearance which Samo

which in the measles is so remarkable, and a great aversion to light. The patients too had always a general painful soreness in all the limbs, and not unfrequently very acute pains in the ancles, knees, wrists and elbows, attended with more or less swelling where the pain was most violent.

In most of these cases, the pulse beat 130 or 140 strokes in a minute, small, but yet hard, and sometimes sufficiently so to justify the opening of a vein. The blood thus taken away, in every instance when cool, appeared sizy, and the whole crassamentum sirm.

extend doin the gellet to the Remach.

Through the course of the disease large quantities of viscid mucus, and other matter with much of the purulent appearance, were from time to time discharged from the throat and nostrils.

there are a see , at proce,

Some

Some threw out feveral white or ashcoloured sloughs, though no such sloughs were visible upon inspecting the throat; but in most, the sauces, particularly the tonsils were covered with them, and upon their separation appeared raw, as if divested of their outer membrane.

The Fever under this autumnal appearance, generally terminated favourably on the fifth, eighth, or eleventh day, but fometimes was protracted to a much greater length, by the formation of large painful abscesses; and I have been told of feveral cases that were followed by a numerous fuccession of boils upon different parts of the body. But no fymptom was more troublefome to some individuals, than exulcerations at the fides and down towards the root of the tongue, which were to painful as to deprive them of the power to take folid food, even feveral days after the inclination for it had returned.

Some throw out fereral white or alli-

Of the consequential Disease.

but in mall, the facers further thank the

TAPPY would it be for the eafe of the practitioner, but still more fo for that of the patient, if the baleful influence of the Scarlet Fever and Sore Throat had its termination here. But in ten or fifteen days from the ceffation of the Fever, another train of fymptoms demands the attention of the former, and exercises the sufferance of the latter. They feel, after a few days amendment, a fomething that prevents their further approach to health: an unaccountable languer and debility prevails, together with a stiffness in the limbs, an accelerated pulse, difturbed fleep, difrelish to food, and a paucity of urine. To made syrings or

shelf food, even feveral days after the

of dilease, foon compel the patients or

These symptoms are soon followed by an universal swelling of the anafarcous kind, and fometimes an afcites. Dropfy. In some patients the feverish disposition runs high, in others it exists only in a moderate degree. In some the dropfy affects the brain, producing coma-vigil, delirium, blindness; with the most enlarged expansion of the iris, which is incapable of contraction in the strongest light. In others, the dropfy falls upon the lungs, and produces every fymptom of the true hydrops pectoris. The tongue is dry and brown; the fkin harsh; the prine of a deep mahogany colour, small in quantity, and depositing a sediment of a still deeper hue, and in a powdery form.

The urgency of these symptoms, added to the very evident appearance

### OF THE SCARLET FEVER

of disease, soon compel the patients or their friends to apply for affishance, and the event, under the mode of treatment hereaster to be described, is almost always savourable.

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hoe, and it a powdery frin.

## Of the Scarlet Fever, bas

ne ally makes its appearance toward

As described by Medical Authors, 1501

is almed this esting as in other fereis,

The Scarlet Fever in its simple state, is not a very uncommon disease in England, but its combination common continuation disease. With a fore throat, as described above, the violence of its attack, and the train of stall symptoms that follow; are circumstances hitherto unnoticed by English writers. Sydenham gives us a chapter upon the Scarlet Fever, in which he observes, (a) that it ge-

(a) Scarlatina febris, licèt nullo non tempore possit incidere, ut plurimum tamen exeunte æstivo se prodit, quo quidem integras samilias, infantes vero præ cæteris insestat. Rigent, horrentque sub initio ut in aliis sebribus, qui hac afficiuntur, neque vehementer admodum ægtotant: postea cutis universa maculis parvis rubris interstinguitur, crebrioribus certè et multo latioribus, magisque rubentibus, at non perinde uniformibus, ac sunt ilte que Morbillos constituunt. Ad duos trésve dies persistant ha maculæ, quibus demum evanescentibus dece-

B 2

robron

nerally

nerally makes its appearance toward the end of fummer, that it attacks whole families, but particularly children; that they are feized with chillness and shivering as in other fevers, but without much sickness. Afterwards the whole skin is covered with some small red spots, more numerous, much

dentéque subjectà cuticulà, restant sursuracez quædam squamulæ ad instar farinæ corpori inspersæ, quæ ad secundam aut tertiam vicem se promunt, conduntque vicissim.

- Satis habeo, ut æger à carnibus in folidum abflineat, et à liquoribus spirituosis quibuscunque, tum ut
neque usquam forâs prodeat, neque se perpetim lecto affigat. Cute jam penitus desquamatâ, et cessantibus symptomatis, è re sore existimo ut purgetur æger leni aliquo
medicamento, ætati atque viribus accommodo. Simplici hâc et naturali planè methodo, hoc morbi nomen
(vix enim altius assurgit,) sine molestia, aut periculo
quovis facillime ablgitur.

Veruntamen hoc animadvertendum volo. Si convulsiones Epileptica vel etiam Goma, huic morbo sub initium eruptionis supervenerint (quod quandoque accidit in pueris ac junioribus hoc morbo laborantibus) omnino oportet ut Epispasticum amplum ac sorte posteriori cervici applicetur, atque, porro ut Paregoricum è Syrupo de Meconio statim exhibeatur, repetendum singulis nocibus usque dum convaluerit; imperando interim ut ager bibat pro potu ordinario lac cum triplo aquae coctum, et à carnis esu abslineat. Sydenham Sest: sexta. Cap. 2.

broader

broader, of a fuller red, but less uniform than those of the measles: that they continue two or three days. After they disappear and the skin is scaled off, a kind of branny scales remain, which fall off, and again appear for two or three times.

He uses no medicines, but thinks Requires it sufficient that the patients abstain cines. from sless means, and from strong liquors; that they keep within doors, but not in bed. After the desquamation of the skin is compleated, he advises a gentle purge. Thus, says he, by this plain and simple method, this disease, (if it deserves the name of a disease) departs without trouble or danger.

Afterwards he adds, that fometimes Uncomin children or young persons, epileptic toms.

B<sub>3</sub> convulsions

convultions or coma take place in the first stage of the eruption, and then it is necessary to apply a large blister to the neck, to give a dose of diagodion, which must be occasionally repeated, and to give milk, boiled with thrice its quantity of water, for common drink.

Dover's

Nearly to the same purpose is the account of Dover, in his physician's legacy, who says, this Fever is of a very mild nature, more manageable than that of the measles, and does not stand in need of the assistance of meadicine.

Appearance in Holland.

Equally tractable with this, is the Scarlet Fever that DE GORTER has obferved in Holland. He fays it chiefly prevails amongst children; that after three or four days continuation of a slight Fever, scarlet blotches appear.

That

That they remain but a short time, vanish insensibly, and leave a kind of branny scales behind them. That previous to the eruption, the patients complain of pains, anxiety, heat, and cough, but that these symptoms are never dangerous. (a)

The Scarlet Fever prevailed in London in the summer of the year 1689, with symptoms much more violent than those described by Sydenham, Dover or De Gorter; insomuch that Morton, Morton's account,

(a) Macularum Scarlatinus color, quæ in levi febre oboriuntur; huic morbo dedit nomen. Incipiunt plerumque in tenella ætate, tertio vel quarto die febris levioris; non diu perfiftunt, insensibiliter evanescunt, relictis in cute quibusdam surfuribus; in facie inchoare solent sensim latiores sacæ maculæ. Reliquam etiam interdum tegunt corpus. Levis videtur biliosa corruptio calore antecedentis æstatis in tenella ætate, motu sebrili ad cutem pulsa, ubi exarescens materia corpus relinquit sanum.

Hæc materia ante eruptionem oberrans, generat febrem, calorem, dolorem, anxietatem, tussim, sine periculo. De Gorter Prax. Med. Tom. 2. pag. 196.

B 4

who

an who has transmitted us the account of it, \* calls it a kind of plague. He does mot in the cafes he relates, mention par--beicularly other affection of the throat; adbut in the eleventh history (page 133) Symptoms he notices swellings and suppurations of the parotids, producing great difficulty in fwallowing, and the discharge of acrid and corrolive matter from the nose, ears and fauces; in another patient a tumour formed in the left armpit and suppurated; and a lady had an abfcefs formed just above the pubis which became gangrenous. He then mentions in terms of admiration how much he had observed the tonsils, the uvula, the fauces and the nostrils to have been tumefied; how greatly the lips were fometimes swelled and covered with fordid fcabs and exulcerations. As what is related in this history

6 1 1

<sup>\*</sup> Exercitatio tertia. Cap. 5.

emploria

SAU CITA

contains the whole of his observations that approach the nearest to our disease. I shall subjoin it in his own words for the satisfaction of the reader (a). But after all, he considers the

(a) Ante fexennium media æffate simul decumbebant in domo Domini Hook tres ejus filia, filiolus unicus, atque Domina Barnadiston ejus matertera, matrona annos septuagința plus minus nata. Omnes quasi veneno deleterio perculfi febre, Synochus, unum tenorem servante corripiebantur, Tuffi Ferina, comate, deliriis, ceterisque malignitatis symptomatis haud obscuris afflicti. Ideoque natura symtomatum id exigente, Alexipharmaca mitiora exhibenda, atque epispastica applicanda justi. Die autem morbi quarto, quinto, vel fexto, finguli fcarlatinam efflorescentiam per cuticulam ubique sparsam perpetiebantur, eamque per septem, octo, vel decem dies protensam. Duz è filiabus atque filiolus, quarto, vel quinto efflorescentiæ die parotidibus infignibus affligebantur, unde deglutitio adeò præpediebatur ut in præsens vitæ subsidium (inflammatione urgente, et forti arteriarum vibratione adhortante) venam secare et moderata manu fanguinem detrahere coactus essem. Alexipharmacorum autem et Vesicatoriorum ope continuata, glandulæ parotides (utut venæsectione earum dolor et ardor mitigarentur) debito tempore exulcerabantur, atque apostematis ruptis pus acre et corrolivura per nares, aures et fauces copiosè egerebatur, unde triginta dierum spatio sensim revalescebant. Filia autem natu secunda die tertio vel quarto efflorescentiæ îmmaniter vociferabatur præ dolore ingente axillam sinistram occupante. Quo circa fangui-

Scarlet

The fame with the measles.

Scarlet Fever and the measles to be the same thing. He defines them as such in his synopsis febrium, \* and in ano-

nem è brachio adverso derraxi ad dolorem mitigandum, ex quo dolor allevabatur. Continuatis autem remediis alexipharmacis tumor increvit, buboni non diffimilis, qui tandem exulceratus pus copiosum per plurimos dies effudit, quo demum fanato integram fanitatem formofa ac elegans puellula recuperavit. Verum Domina Barnadiston cum ad plures dies male se habuisset, et omnem remediorum usum neglexisset, tandem post sex vel septem dies elapsos carcinomate paulo supra pubem corripiebatur, quod spatio unius vel alterius diei præ virulentia veneni per partem affectam excreti gangræna tentabatur. Alexipharmacis autem et epispasticis diligenter adhibitis, et auxiliis chirurgicis peritè applicatis, præter spem adstantium ab hâc peste, licet difficulter admôdum evasit, atque postea ad tres annos superfuit. A Peste (inquam) evalit, quoniam venenum morbi prædicti, pestilentialis fermenti malignitatem adæquabat; et si quando venenum istiusmodi morbillosum crisi perfecta per cuticulam propelli haud potest, tanquam venenum pestilentiale glandulas sponte petit narium, faucium, inguinum, &c. easque inflammat et exulcerat, nec non carcinomata, bubones et parotidas excitat. Quantum tonfillas, uvulam, fauces, nares, et quam diu intumuisse vidi! quam turgida nonnunquam labia! et quam fordida scabie obducta et exulcerata ab eâdem causa animadverti! ut nuperrimè filiolo domini Blaney accidet, qui post efflorescentiam peractam sebre, comate, et prædicto symptomate diu affligebatur. Exercit. 3. Cap. 5. p. 53,54.

\* Exercitatio prima. Cap. 2. p. 41.

ther place observes (a) that notwithe standing this disease has from the general concurrence of physicians obtained a particular name, yet he thinks it to be altogether the same as the measles, differing only in the mode of the eruption; the former being a continued inflammation or redness equally diffused over the whole cuticle, the latter existing in the form of distinct, oblong or angular blotches. (b)

So long ago as the beginning of the feventeenth century, SENNERTUS, phy-

(a) Hunc morbum (utut universali medicorum confensu titulo peculiari donetur) prorsus eundem esse cum morbillis censeo, et solo essorescentiz modo ab illis distare, &c. Cap. 5. p. 43.

ting profit it coming by across all infrom an

rot.

(b) Efflorescentiam hanc, interstitiis figurâ diversâ, oblongâ scilicet quadratâ, vel multangulâ præditis variegatam observare est: namque non una continuatâ inslammatione seu rubedine, ut in sebre scarlatinâ, persunditur cuticula. Quo criterio duntaxat hæc efflorescentia
ab altera quæ sebrem scarlatinam comitatur dignoscenda
est. Cap. 3. p. 17.

fician

fician to the Elector of Saxony, obferved the Scarlet Eever in its more
In Saxony, malignant form, and has given us a
pretty good description of it in his chapter upon the small-pox and measles. ‡
After speaking of the latter he says,
that there is yet another variety which
he has sometimes, but not very frequently, observed, and that he is in
doubt by what name to distinguish it, (a)

1 Sennertus de febribus. Lib. 4. cap. 5.

(a) Præter has differentias adhuc alia est, sed rarior guidem, quam aliquoties observavi, quo nomine tamen ab aliis discernerem, hactenus dubius fui. Etsi enim instar erysipelatis totum serè corpus prehendat; tamen non vidi quod adultos, quod in erysipelate sieri ferè solet, sed infantes solum corripiat. Malo ergò ad morbillos referre. - - - - - - - Maculæ rubræ et quasi ignitæ cum vix effatu digno tumore per universum corpus quafi quædam parva cryfipelata erumpunt in principio, seu morbi die quarto vel quinto. In statu verò universum corpus rubrum et quasi ignitum apparet, ac si universali erylipelate laboraret. In declinatione rubor ille imminui, et maculæ rubræ latæ, ut in principio iterum apparent, quæ tandem septimo vel nono die evanescunt, epidermide squamarum instar decidente. malum verò hoc grave ac periculofum et sæpe lethale est. Nam calor est ferventissimus, sitis inextinguibilis, et pledy like an erylipelas, yet the erylipelas chiefly feizes upon adults, but this difference attacks children only, therefore he rather chooses to refer it to the measles. He then describes it in words to the following effect. "Upon the symptoms fourth or fifth day of the disease, red fiery blotches appear over the whole body, but without any remarkable fwelling. In the height of the disease this fiery redness occupies the whole furface not unlike an universal erylipe—"las. In the decline, the general redness "abates, and broad red blotches again."

rumque pulmonum (unde tusses excitantur) saucium et aliorum viscerum inslammationes, deliria et alia mala urgent. In declinatione tandem materia ad articulos extremorum transsertur, ac dolorem et ruborem; ut inartheiticis excitat. Cutis squamarum instar decidit, moxpedes ad talos et suras usque intumescunt, hypochondria læduntur, respiratio difficilior redditur, tandèmque abdomen intumescit, ægrique non sine magno labore, et post longum tempus pristinæ sanitati restituuntur, sæpéretiam moriuntur. Sennertus. lib. 4. Cap. 12. p. 190, 191.

SCHULTZIUS

"appear

Confequences,

"appeatwas in the beginning. These " as length fade upon the feventh of which day, and the fkin peels off. "This difeate is fevere, dangerous and "frequently fatale, for the hear is end treme, the thirst inextinguishable, and accompanied in most cases with delivium, inflammation of the faudes, of the langs, and of other visceras IIn " the decline of the fever, the matter " is transferred to the joints of the ex-" tremities, and there excites rednefs " and pain relembling the gout. The " fkin falls off in scales, and presently " afterwards the feet and legs swell, the hypochondres are affected, the ref-" piration is rendered more difficult, " and at length the belly fwells. Thefe " patients require great' care and a

" length of time to recover their for-

mer health; but they often die."

rsongs"

SCHULTZIUS

maintenant authorize excession en the

Schultzius describes the scattet sever and sore throat under the name of purpura epidemia maligna as it appeared in In Poland. Poland in the spring of the year 1664.\*

He remarks, "That the winter was "mild and rainy, (a) that the disease "appeared early in the spring and continued to rage through the whole season."

" fummer

<sup>\*</sup> Miscellanea naturæ curiosorum. Annus 6. 7. Obs. 145.

<sup>(</sup>a) Cum anno 1664 hyems mellis et pluviosa esset, graffabatur apud nos vere primo insequente purpura epidemia maligna, que per totam estatem et autumnum usque in hyemem sæviebat, plurimosque infantes utriusque fexus, et duodecim annum attingentes (nam ultra hanc ztatem vix afcendebat) perimebat. Plerique fecunda die morbi, nonnulli etiam prima moriebantur; illi folummodò evadebant, qui nulla faucium inflammatione vel tumore cedematolo (variabant enim ista prodiversitate naturarum) infestabantur. Tum omnibus ab isto morbo liberatis, post copiosum sudorem (nonnullis etiam diarrhœa, fed tantum unius vel alterius diei critica profuit) squamæ decidebant, rubore cutis evanescente. Tandem, præsertim natu majoribus, tumor totius corporis, infler leucophlegmatiæ, et infimi ventris sequebatur, qui per aliquet feptimanas miferis moleftus eras, fudoreque etiam folvebatur, interdum etiam urina largius profluente. --- Mifcell. Nat. cur. ann. 6. 7. p. 206.

"fummer and autumn, even to the "winter following. That it proved "fatal to a great number of children "of each fex, but hardly affected any "that were beyond twelve years of age."

Ho remarks. "That the winter was He fays, "they mostly died upon the fecond day; some upon the first. symptoms." Those only survived who had no in-"flammation in the throat and no dedematous tumour. In those who " recovered, after a copious fweat, the " redness of the skin vanished, and a " desquamation followed. In some a " diarrhea of one or two days conti-" nuance proved critical. After some "time, especially in the older patients, "the whole body was affected with a Dropfy. " fwelling like the leucophlegmacy; the " belly likewife fwelled. Thefe fymp-"toms continued very troublefome for " feveral weeks; they were carried off " by remail

"by fweating, and fometimes by a "plentiful flow of urine."

In the medical transactions of Berlin, Decad. 1. vol. pag. 20; we find our difease tolerably well characterised in a few words. (a)

In the Scarlet Fever the patients As it appeared at are attacked with shiverings, head-Berlin.

"ache, nausea; and a vomiting ge-

" nerally fucceeds, The efflorescence,

"which is preceded by an elevation of

"the papillæ of the skin occasioning a

"roughness, gradually appears upon

" the fourth or fifth day, extending it-

" felf over every part of the body, and

" accompanied with a degree of intu-

(a) Invasit sebris scarlatina patientes cum rigoribus, cephalalgia, et cardiaca nausea, quam excipiunt, communiter vomitus: essorescit quarto vel quinto die sensim atque sensim, post præcedaneam asperam papillularum cutanearum elevationem, rubedine per universum corpus a capite usque ad calcem, cum cutis aliquali intumescentia,

" mefcence,

- " mescence; fo that the outward ap-
- " pearance of the patient resembles a
- " lobster boiled. This red colour
- "fpreads over all the limbs, the cor-
- ners of the eyes, and the infide of
- the nostrils.
  - About the feventh day,
- " but without any previous sweat, the
- "intense colour abates, the skin be
  - gins to peel off, and then it is,
    - " whilst the disease seems to be upon
    - " the decline, that the patients are en-
    - "dangered from congestions about the
    - fauces accompanied with aphthous
    - inflammation.

(panerolana h

ita ut patientum externus aspectus, referat ideam cocti cancri. Illa rubedo interiora narium, limbosque et angulos oculorum obducit.

the found or fifth day, extending in-

fudoribus, rubor iste sit remissior, cuticulaque inchoat desquamari, et tunc maxime, dum morbus declinare videtur, sauces aphthodeo-intlammatoria congessione periclitantur.—Asta Med. Berol. Decad. 1. vol. p. 20. & seq.

NAVIER

" mefeviolene Fever, accompanied with

Navier published a letter upon the Epidemic diseases of the year 1758, in which he has recorded a history of the Scarlet Fever and Sore Throat corresponding much nearer to our disease than any account which we have yet examined.

TEHe fets out with observing (a) that Navier's account.

"when the air grew colder, the small-

hand, of a bright fearlet colour,

"pox almost entirely ceased; upon a

"warmer air again prevailing, another

"epidemic disease appeared, far more

inflammatory in its nature than the

" fmall-pox, viz. the red or Scarlet Fe-

ver. This difease begins with a

every

<sup>\*</sup> See Plenciz Tractatus de Scarlatina. See also Commentaria de rebus. Part 1. vol. 4. p. 338. The original is published in French, but we have taken the Latin translation as given by Plenciz.

<sup>(</sup>a) Variolis tandem a mediocri orto frigore fere penitus extinctis, tempestate dein paulo mitius facta, alius apparuit epidemicus morbus, variolis longe magis inflammatorius, febris nimirum tubra, featlatina dicta. Hic

" most violent Fever, accompanied with

offaintings, great weariness, pains of

the head and throat, and a difficulty

Scarles i ever and Sope Throat correl-

which he has recorded aghivettswhine

on the second day, but frequently in twenty four or thirty hours, large red spots, mostly larger than ones hand, of a bright scarlet colour, and irregular in their sigure, appear all over the body, covering the back, the breast, the thighs and the haunches so completely, that they are of one communed scarlet colour. These spots are disappearing almost morbus per sebrem admodum vehementem se manifesta-

Secundo die, et sepe post viginti quatuor vel triginta horas in toto corpore maculæ rubræ, vivido scarlatino colore, largæ, manus magnitudinem sæpe excedentes, siguræ irregularis, et dorsum, pectus, semora et nates sæpe ita tegentes, ut unica tantum esse videretur, appartierunt. Islæ maculæ quovis sere momento disparen-

vit, que animi deliquiis, lassitudinibus spontaneis, capitis fauciumque doloribus deglutitionem impedientibus,

non

comitata erat.

"again appearing in places that they

"did not occupy before. They feel of

"a fharp biting heat, especially in

"adults; and though fo extremely

"red, when pressed by the singer turn had a white, but the pressure being re-

"moved they become red again.

The pulle is quick and small, the respiration for the most part difficult, interrupted, and sobbing. The breath so hot and burning that who ever feels it is obliged to turn away their face from the patient. Some-

tes, se in alia loca erysipelatis more conserre videbantur, in quibus antea non fuerant. Manus casdem tangens, calorem vividam et ardentem pracipue in adultis senticibat, et cutis ruberrima digito compressa albescens, remolto digito rursus rusescebat.

Pulsus parvus et frequens erat, et respiratio difficilis et intércepta et singultuosa in plurimis esse videbatur, Halituosus vapor e pulmonibus egrediens adeo calidus et urens deprehendebatur, ut unusquisque hunc percipiens faciem ab ægro statim avertere cogeretur. Hæc sebris.

C 3

times

- "times the shands and arms are "Swellen.
- "This Fever attacks whole families.

Dropfical appearances.

Navier observes, that he has seen this disease in young children followed by a prodigious seucophlegmacy. In one case the seucophlegmacy affected even the eyelids; the urine was brown and very small in quantity, as was not unusual; indeed it sometimes appeared bloody. This patient was cured by the application of blisters, after other necessary steps had been taken.

etiam interdum cum manuum et brachiorum inflatione conjuncta fuit, integrasque samilias, aut insimul, aut successive invasit. Vidit Glo Auctor insantes hoc morbo laborantes, quibus prodigiosa seucophlegmatia supetvenit. Quidam hac sebre laborans et usque ad palpebras seucophlegmaticus, parcissimam brunam utinam reddens, qualem in hac sebre sæpissime, imo interdum sanguinolentem secedere afferit Cl. Auctor, præmissis præmittendis ab omnibus symptomatibus vesicatorium applicatione, liberatus suit.

point?

the second contract with a second con-

In some he says the belly is distended, and the tongue very dry, but in general it is sufficiently modific angulation we perceive or an account to prevent

Quidem ventrem flatibus distentum; et linguam valde ficcam, plurimi vero humidam habent.) Ils qui emergunt, epidermis, quinto vel sexto die per squamas decidit, quinimo adoloscenti tredecim vel quaruordecim annorum tota manus pedisque cuticula, exceptis unguibus, decidit. - - - - Nis ægro statim in primo morbi impetu sucurratur, escharæ gangrænosæ in sundo saucium versus arcus et velum palati superveniant, et hisce ortis

C 4

version from some distinct facile column.

" this

willes bushing the oute

21513

this is the tafe, few recover. This "gangrene frequently feizes upon the a cesophagus and the windpipe before "we perceive or endeavour to prevent "is lain Some patients dien upon the fourth or the fifth day, with the " fymptoms of fuffocation from a gan-" grenous inflammation of the lungs. "Others who die violently delibious, "discharge a large quantity of famles " from the mouth and nostrils, and the " learlet blotches after death fomerimes "change to a violer colour. Thefe " fymptoms in young children are far pauci emergunt. Hac gangrana celophagun afperamque afteriam sæpe ante occupat, quam illam percipere, illique medere queamuspalit salle a strav metal . - - Quidam ac febre rubra affecti quarto, vel quinto die codem modo percunt, ac fi per inflammationem gangrænolam pulmohum fuffocau effent. Alii polt vehemens delivium marientes, magnam faniei quantitatem per os et narcs reddunt, et rubræ antea maculæ, post morten in quibusdam prorfus violaces confesciuntur. Hec symptomata vero in infantibus longe minus violentia funt, remediisque facile cedunt. -

Plenciz

Struct distributed and structured and structured about the structure and structured about the structured about the structure and structured about the structured ab

In another place Navier fays, "it is "not unufual for young children to have a fevere cough before the at"tack of the Fever; which becomes
"left troublesome when the Fever
"comes on, and ceases along with it.

SAUVAGE in his Nofologial Methodia At Montca \*; among the other species of the pelier.

SCARLATINA, mentions the SCARLATINA And Nosa of the year 1965. This seems to agree very well-wall-but life eafe. He says that (d) so shother tumo

Infantes, hac febre Scarlatina decychbentes, ordinatie ante febrem telfi ferion laborarunt quæ vero cum febre sele imminuit, et cum illa quoque evanuit. D. de Navier. In Comment de rebus. Pars prima. Vol. 4. p. 238. Vide etiam Plenciz Tract. de Scarlatina.

veligate thendillo diate, Charte edition at stagister

(a) Hac zestate Motsspelii viget apud infantes statiadi na, in qua totus truncus intense rubet cum voce rauca, et angina ulcerola, imo in quibustiam gangraenola. Sauvage Nosol. Meth. Class. 3. G.8. Sp. 6.

' mer

5 mer of that year, a Scarlet Fever pre: " vailed at Montpelier amongh young "children. The whole body was into tenfely fed, the voice hoarle, the "throat ulcerated, fometimes ganhave a fevere cough before the at of the Fever; which becomes

Plenciz account

At Monte

PLENCIZ a phylician at Vienna, in his Traclatus de Scarlatina has added something to the history of the difease. He is the first author that mentions the appearance of white blifters when the desquamation of the skin takes place, and he gives us the best account extant of the dropfical flate that succeeds. He thinks the danger of the patients is greater from the dropfy than from the scarlet fever, but that was not the case with us. He takes fome pains to investigate the cause of the disease, and is much more diffule upon the method of cure than any of his predecessors: fold. Meth. Clair, g. G.S. Sp. 6.

but

but these things will come to be noticed 

" alcong attended with a frothy pitu-From the description of this difease as it existed at Birmingham and from the accounts transmitted to us by other authors, the readtravial I thope berenabledica attain a pretty accurate knowledge of its not withflanding its multifarious appearancesid It conly cremains: in order to perfed the history, to relate the appearances found in the body Diffection after death, but this I have not been able to accomplish, nor do Joknow of any one that has. The only examination that I find upon record is that made by Doringius (a) a friend to Sennerrus. He relates the cafe of a boy that furvived the first attack of fever, but afterwards had swelled feet,

" legs,

<sup>(</sup>a) Tra observavit Cl. D. M. Doringius, ut literis ad me datis scripsit, puerum quendam Uratislaviæ post hunc morbum pedibus, cruribus, scroto, ventro ac facie intu-520W \*\*

## OF THE SCARLET FEVER

legs, scrotum, belly and face; a flushing in his checks, an irregular sever, a cough attended with a frothy pitutious expectoration; and great difficulty in breathing. Seven days be fore this death, after most laborious and rauthing breathing, with a sense of oppression at his chest, upon the breaking of an abscell he coughed up in pus and black blood. Seven days afterwards being avaicked again with infinitar symptoms, he died.

after death, but this I have not been all world with the whole

" cavity of the cheft was filled with yel-

low water; both lobes of the lungs

muisse, cum genarum nonulla ac perpetuoque rubore, sebricula irregulari, tussique pauca, caque spumosa saltem et pituitosa rejiciebat, difficultate respirandi summa. Hic septimo die arrequam more etur, post summam respirandi difficultatem, ponderis sensum circa pectus, ac stettorem, pulmonis abscelsu rupto pus et sanguinem atrum tussi rejecit, et huic septimo ab illo paroxysmo die, cum eadem symptomata redirent, mortuus est. Corpore aperto, tota pectoris cavitas aqua citrina repleta, pulmo-

eral "

" were

"were livid and gangrenous; a large

" abscess was found in the left. The ca-

" vity of the abdomen was filled with

" a fimilar watery fluid. The omentum

" nearly wasted. The liver pale in

" colour, and in propertion to the fub-

"jedt, of an amazing fize."

neique ambo toti liviti et gangranofi confpiciebanturo et sinister magnum intus abscessum sovebat. Abdomine aperto innatabant inteftina tota fimili aque: omentum prope confumptum videbatur. Heper quod pro individui ratione portentola fuit magnitudinis, sub-pallidum. Sennerus Lib. 4. Cap. re, p. 191. Edit. 9650

our the characteristic differences cannot

be unaccopiable anoist allarge appearing a the bearing and sent the first bearing

Perechial In INVIEWER WAS THE Provenier Wind the

eruption feldont appears before the Letoql Builtib 20 founds days it of Westing gaily regular in the Co occupying the need the back and the loines But in the Seartes Fever the eurpdon generally appears about the third days confine either of broad blotcher or dia

where livid and gangrenous; a large ables was found in the left, The cavity. most most of his hold of the left, The ca"a fimilar watery fluids to the fiver spale, in
"nearly wasted. The liver spale in

is so nearly related to some other severs, that it is not always easy to distinguish them without having an eye to the prevailing epidemic of the season. An attempt therefore to point out the characteristic differences cannot be unacceptable.

Petechial fevers.

In fevers of the Petechial kind the eruption feldom appears before the fourth day; it confilts of distinct spots, regular in their form, and principally occupying the neck, the back and the loins. But in the Scarlet Fever the eruption generally appears about the third day; confists either of broad blotches or else

seeming also books the wintile

else one continued redness, which spreads over the face and the whole body.

In the fever called Purpura the pultules Purple are prominent, keep their colour under pressure, and never appear early in the disease. Whereas in the Searlet Fever the eruption appears early after the attack, is not prominent, but perfectly fmooth to the touch, and becomes quite white under pressure. These diseases are certainly distinct in themselves, and not mere modifications in the eruption only, though they feem connected by some general cause, for we had several examples of the true Purpura at the time the Scarlatina prevailed; but I know a gentleman who first had the Scarlatina, and thortly afterwards the Purpura: now I never yet have feen an instance of the same person having the Scarlet Fever twice, and I believe it to but be

be as great an improbability as a repetition of the fmall-pax bas sont adi ravo

50

Meales. The Meales are to nearly allied to the Scarlet Fever, that we find some of the best medical writers considering the diseases as no way differing, but in the mode of the eruption; the former rifing above the fkin, and limited in their extent, the latter fmooth and univer-But not to mention fally diffused. that the patients who had gone through the measles were equally subject with others to the Scarlatina, we may obferve that the cough, the running at the nose, the watery eye; symptoms so predominant in the early flate of the former, are never found to exist in the latter. I confess to have met with one case of the Scarlatina in which a troublefome cough arose upon the seventh day, and disappeared on the tenth. but

but in the measles it is a leading lamped of the first of the second only during the eruption, but commonly for many days afterward.

The Eryspelas may in many circum-Eryspelas
flances vie with the Scarlatina, but the
limited seat of the former, together
with its not being contagious, at least
in our climate, is sufficient to diffinguish it from the latter. We may likewise take into the account, that in the
most frequent species of the eryspelas
there is a constant cozing of an acrid
watery fluid from the inflamed parts,
which is never the case in the Scarlatina.

In addition to the above distinctions, many remark, that the Sore Throat, one of the symptoms most observable in our epidemic, is either almost or almost one of the symptoms of the symptoms most observable in our epidemic, is either almost or almost one of the symptoms.

D together

#### SORE THROAT. OF THE SCARLET FEVER

together wanting in these congenial difeafes. the eruption; but commo

others though

Ulcerated Sore Throat.

There is yet another disease so much refembling our epidemic in many of its leading symptoms, that I acknowledge it is not an easy talk to dillinguish them, and yet the distinction is a matter of the greatest importance, as the method of treatment ought to be extremely, different. The reader will readily guess that I allude to the Angina Gangranosa or ulcerated Sore Throat. They are both epidemic, they are both contagious: the mode of leizure, the Great re-first appearances in the throat, are nearly the same in both; a red efflorescence upon the skin, a great tendency to delirium and a frequent, fmall, unfleady pulse, are likewise common to both----with features fo firikingly alike, and those too of the most obvious

obvious kind, is it to be wondered that many practitioners confidered them, as the same disease? that others though sensible of some little differences, still concluded them to be of the fame nature; both putrid, and both demanding a fimilar mode of treatment? those who can answer these questions in the affirmative, must feel themselves posfelfed of greater penetration than I can of the reader it will be conve to fisod

contral then in a tabular form. But though the refemblance may at first fight betray us into error, the attentive praclitioner will not long be fatisfied with a mode of treatment in which the noblest medicines fail of their usual effects; he will meet with cases in which the dissimilarity is sufficiently obvious : he will foon attain a discrimination adequate to every useful purpose: but perhaps he will Motorane

D 2

never

never be able precilely to draw the line where the light begins and where the remainioners. Edit begins and where the penumbra ends. Some penumbra ends that others thought

Doctor Fothercill, by his excellent account of the Sore Throat attended with alters, has furnished us with the means of drawing such a comparative view of the two diseases, as will I hope in a great measure obviate the possibility of mistaking them. For the ease of the reader it will be convenient to contrast them in a tabular form.

But though the refemblance may at first fight betray us into error, the artentive practitioner will not long be fatisfied with a mode of treatment in which the noblest medicines fail of their usual effects; he will meet with cases in which the distinularity is sufficiently obvious; he will soon actain a discrimination adequate to every a discrimination adequate to every a first purpose that perhaps he will contain the purpose the purpose he will

Second

### AND SORE THROAT.

Scarlatina Anginosa.

Seafon. Summer-autumn.

Air. Hot --- dry.

Places. High-dry-gra-

Subjects. Vigorous—both fexes alike—robust in most danger.

Skin. Full fearlet—fmooth
---if pimply the pimples
white at the top--always
dry and hot.

Eyes. Shining, equable, intense redness—rarely watery.

Throat. In fummer, tonfills, &c. little tumefied —no floughs—in autumn more swelled—integuments separating floughs white.

Breath. Very hot, but not

Voice. In fummer natural.

Bowels. Regular at the accession.

Blood. Buffy-firm.
Termination. The 3d, 5th,
8th, or 11th day.

Nature. Inflammatory.

Angina Gangrænofa. Season. Spring-winter.

Air. Warm-moift.

Places Close low damp

Subjects, Delicate—women and female children-robust adults not in danger.

skin. Red tinge—pimply—the pimples redder than the interffices—bedewed with sweat towards morn.

Eyes. Inflamed and watery, or funk and dead.

Throat. Tonfills, &c. confiderably fwelled and ulcerated—floughs dark brown.

Breath. Offensive to the patients and their assistants.

Voice. Flat and rattling.

Bowels, Purging at the act

Blood. Florid-tender.

Termination. No flated period.

Nature. Putrid.

It is not pretended that all the above contrasted symptoms will be met with in every case; it is enough if some of them appear, and that if conjoined with the consideration of the prevailing constitution, they will enable us to direct that mode of proceeding which will most contribute to the relief of the sick.

Second contagion

Perhaps one other circumstance may affift us in forming an opinion of the It is well known that those who have once had the ulcerated fore throat, are more liable than others to be attacked by it again; but I am perfwaded that a person may as soon have the measles or small-pox a second time as the Scarlet Fever and Sore Throat. However the fuccession of these diseases is not incompatible; for I attended the children of one family who had the ulcerated Sore Throat in May, and the Scarlet Fever and Sore Throat in the Termination. The 3d, 5th, August following. wab dies to dis

Mature. Inflammatory. J. Mature Pould.

rically and graine spring dry and colde

Of the Causes of the Scarlet Fever and
Sore Throat.

ring and deriver and the of the month

How far the appearance of this General causes. disease depends upon the constitution of the air, how far upon the temperature of our bodies influenced by the productions of the seasons, and how far again upon the concomitant existence of other diseases, are matters that nothing but the experience of ages can determine. Schulzius observes for that the winter of the year 1664, in Poland, was mild and rainy; the Scarlatina Anginosa appeared early in the following spring, and raged all summer seasons and autumn, even until the winter following. The last winter with us was uncom-

boirpq Jent 10 + Loco citato.

deien odt ni eegra den beigh.

bouthood.

monly

monly mild; the fpring dry and cold; the fummer dry, and remarkably hot. In October the air was unufually cold. November was a wet month; the first week cold, the middle of the month warm. The disease began in May; it raged with great violence in June July, and August; in September the scar, let colour was less intense, and in October the fkin was frequently not at all affected, but the Fever in other refpects nearly the fame; and the complaints in the throat greatly augmented. In the warm weeks of Noyember, the fearlet colour was more frequent again -- During the months of September, October, and November, the inflances of the difeate in the town of Birmingham were fewer than in the four preceding months; but during the former part of that period, all the towns and villages in the neighbourhood, bourhood, and many separate houses, in high, dry, gravelly fituations fuf-Situations fered greatly; whilst the inhabitants of wet, low, or sheltered places, either knew not the disease at all, or if they did, it was only in its mildest form. The product of vegetable substances Diet. this year was great; indeed it was univerfally allowed that the crops of almost every kind were greater than they had been for many years past.---It has been already remarked, that the smallpox, the measles, the hooping cough, were with us the concomitants of the Scarlet Fever, and that it was preceded in the winter and spring by the ulce-Other difrated Sore Throat. NAVIER too remarks \* that it succeeded to the smallpox; and Morton observed it to prevail together with the meafles. it) Caufin hain morbi non folunt care illa, que

Indoson anglicam, al Lorento wood anotam, dylenteriam,

cauffic

bourhood and many teach that booking

disease, those who are best acquainted with the present impersect state of knowledge are the least likely to expect a satisfactory answer to such an enquiry. Morton says (a) "it is a "poison defiling the animal spirits, "whose malignity does not only over"whelm the spirits in its first attack, "but breaks down the mass of blood
"by agitation, into an acrid colluvies, "more powerfully than any other "ferment."----

NAVIER (b) thinks the cause of the Scarlatina Anginosa is something acrid,

- (a) Causa morbillorum continens seu immediata est Venenum spiritus inquinans, quod non tantum in primo morbi stadio malignitate sua spiritus obruit, sed massam sanguinis agitando eam in colluviem acrem, præ cæteris comnibus sermentis colliquesacit. Loc. citat.
- (b) Causam hujus morbi non solum cum illa, quæ sudorem anglicam, aphtham gangrænosam, dysenteriam,

chanks

caustic

caustic and putresactive, like that of the meastles. He believes that a similar Navier's opinion. cause produces the sweating siekness, the gangrenous aphthæ, the dysentery; and that it is analogous to the disternper amongst the cattle. He endeavours to support this last opinion by observing that when the cattle recover they lose their hair, and their skin peels off: when they die, the viscera are always more or less in a gangrenous state. Hence he concludes, that our disease was communicated by contagion from cattle to mankind. He

&c. excitavit, eandem esse dicit, sed in miasmate, quod cum morbilloso comparat, acri caussica et putrefaciente consistere ipsum que morbum analogiam alere perhibet cum morbo epidemico pecorum. His enim convalescentibus pili et epidermis eodem modo deciderunt, ac hominibus cuticula, et in cadaveribus pecorum apertis semper viscera quædam gangrænosa invenit Cl. Auctor.

Ex pecorum igitur morbo hanc febrem per contagium ortum esse arbitratur, candemque cum variolis ideoquoque convenire asserit, quia magnus infantum numerus candem brevi ante vel post variolas habuerit.

d og delenoù es d

Darticles

Plenciz tractat.

thinks

with the small-pox, because a great number of children had it a little before or a little after the small-pox.

Plenciz opinion.

PLENCIZ \* attributes the effects to certain animated seminal particles, Semina animata, which he thinks are capable of multiplying their kind. He supposes they may be wasted by the winds to considerable distances, or that they may sometimes lie dormant a long time in the body; and thus he accounts for the production of the disease, when it did not previously exist in the neighbourhood.

But whether the disease is caused by animalcula capable of generating their kind, or by certain miasmata which have the property of assimilating other

abus mili et epidermis codem made deciderunt ac homi-

thinks

<sup>\*</sup> Tract. de Scarlat. p. 64---68.

OF THE SCARLET FEVER particles of matter to their own nature, by fome mode of fermentation hitherto but little understood, there can be no doubt but it is contagious, and per-Contagious alugad of the doubt haps to in a degree nearly equal to the mall-pox and measles. being almost inflantaneously produced

have repeatedly had occasion to oblerve, that it is upon the third or fourth day after expolure to the contagion, that the patients begin to complain. Its first effect is evidently that First effect. of a poison of the sedative kind acting upon the nervous system. Its first seat seems to be the pituitary or Schneiderian membrane, every part of which it presently pervades, palling from thence down the cesophagus to the stomach, and the stomach and the of a poison of the ledative kind acting

the spinis state. Thus.

The

by some mode of sementation bither to

Scarlet colour.

Affection

mach.

The redness of the skin does not neceffarily imply a determination of the Contagious poison to the surface of the body; because we know inflances of a fimilar effect being almost instantaneously produced by certain affections of the flomach. How many people after eating muscles\* have we not heard of, that have experienced great anxiety, presently followed by a general redness upon the skin; and which again was as foon removed by the exhibition of a vomit to discharge the poisonous cause! Who has not obof the sto-ferved the full scarlet slush upon the face after eating herrings, or vinegar; after drinking acetous beer or cyder? Can any body suppose that, in the one case theosfending matter is instantly conveyed to the skin? or that in the other

Mytilus edulis. LINN.

it is carried from thence inflantane-

# AND SORE THROAT.

oully as the contents of the Romach are evacuated?

I know a young lady to whose constitution oatmeal is so completely point
sonous, that in a sew minutes after swall
lowing the smallest quantity, a general
scarlet colour, accompanied by a sensible tumesaction, takes place upon the
skin; and I know a gentleman who has
frequently experienced similar effects
from eating sweet almonds.

I shall only add further upon this is fubject, that the effects of acids jult now the state of the minimum as a state of the Scarlatina Anginosa, are by far the most remarkable in hot weather.

At the time when the disease prevailed here in its fullest force, and every one
was alarmed for himself and his connections,

OF THE SCARLET FEVER

nections, the best preventive method named and lo streamed after. Some was anxiously enquired after.

Prophylactics.

fmoked, fome chewed, and others fnuffed tobacco: fome daubed their hands and faces with thieves vinegar; many work camphor at the pit of the flomach, and fill more fwallowed bark and Port wine. But those who were much carried to be a companied to be a conversant with the disease, had too accompanied to be tuned to be tuned to be tuned on to observe that none of kin; and I know a gentleman who has bluoW. Is also were effected the second bandar effects. it not be as reasonable to expect that om earing tweet aimond we shall find a substance capable of deftroying the activity of the small-pox matter, as that we can hope for one which shall prove a prophylactic to the Scarlet Fever and Sore Throat?

However vain our hopes may be, built upon fuch a foundation, yet if my conjectures are true, that the poison furst makes its lodgement upon the mucus feparated

### AND SORE THROAT

feparated by the pituitary membrane lining the nose and fauces, it will be of some consequence to those who from their attendance upon the sick are necessarily exposed to the insection, to hawk up and spit out frequently the mucus that collects in the fauces, and likewise to promote the discharge of that which lodges in the nostrils.

go to bed, and arink blankfully of wine

From the same consideration I am led to advise those who having already imbibed the poison, are seized with the first symptoms of the disease, immediately to take an emetic; frequently to wash their sauces with soap-leys diluted with water; and to snuff something up the nose that will make them sneeze. The first and last of these indications are sufficiently obvious; and the other is sounded upon the facility with which the caustic fixed alkaly dissolves mucus,

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and

and the quality it has of destroying all the peculiar properties of animal matter. If these precautions are attended to, I can venture to assert, from a pretty large experience, that the infection will either be altogether prevented, or else very trisling in its confequences. After the operation of the emetic, I generally direct the patient to go to bed, and drink plentifully of wine whey with spirits of hartshorn.



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# Method of CURE.

A MONGST the multiplicity of medical writers, only a few have favoured us with a description of the Searlet Fever and Sore Throat; and fewer fill with the method of cure.

andes which it is forced to adopt a

Morron, considering this and the measles to be the same disease, directs the practice to be the same in both; and in this he is a much better guide than those who have written more expressly upon the subject. I can believe that the constitutions of the natives in different parts of Europe, will allow of a considerable difference in the method of treatment; but I am persuaded that those who practice in England with

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fuccels,

fuccess, will find more occasions to depart from, than to concur with the methods advised by the French and German authors.

Instead of tracing the progressional steps of the disease over again, and pointing out the plan of treatment in every different stage of its course, and under the variously different appearances which it is so ready to adopt; I believe it will be the shorter way to consider the different remedies as they occur, and to point out how far I have sound them in real practice to be useful or detrimental; and asterwards to subjoin a few cases, the better to illustrate the mode of application.

But preparatory to this, I must beg the attention of the reader to a few principles, which did not derive their origin

different parts of Europe, will allow of

origin from any preconceived theory, nor from any predisposition to particular opinions, but from actual observation; and as such I offer them as matters of fact; under a full persuasion that those, who after an attentive consideration of the disease, appear to differ from me in opinion, will in reality find that difference to consist more in words than in sentiments.

1. The immediate cause of this difcease, is a poison of a peculiar kind, communicable by contagion.

tion takes place; and that this re-

2. This poison first takes possession of the mucous membrane lining the fauces and the nose, and either by its action upon the secretory glands, or upon the mucus itself, assimilates that mucus to its own nature.

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greatly

blood-venels dependant thereon, is

3. That

from this only, that it foreads to the flomach, &c. and at length acts upon the fystem at large.

beringdonate vertices elser

- 4. That its first action upon the nerves, is that of a sedative or debilitating power.
- laws of the nervous system, when the debilitating effects operate upon the Sensorium commune, a reaction takes place; and that this reaction is, ceteris paribus, proportioned to the debilitating power.
- 6. That in consequence of this reaction of the nervous system, the
  vibratory motion of the capillary
  blood-vessels dependant thereon, is
  greatly

greatly increased, an unusually large quantity of blood is accumulated in those vessels; the heart and large arteries are deprived of their customary proportion; and hence, though stimulated to more frequent contraction, the pulse must necessarily be feeble.

7. Violent exertions are followed by debility. Upon the cellation of the fever, the capillary vellels which had acted with fuch unusual violence, are left in a state of extreme debility, and are long in recovering their tone; hence it is that so many patients afterwards become dropsical.----

If these positions are true, they will enable us to direct our practice with a tolerable degree of certainty; they

will point out the way to further Improvements, and they will affift us in judging of the probable fuccess of methods which have been advised, but which we dare not adopt. Of this kind is

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BLOOD-LETTING. Plenciz and Navier advise us to use the lancet. The former in more general practice, but the latter confines it to cases wherein the inflammatory symptoms run very high. (a) He directs to bleed in the arm, but in case of delirium or coma, to open the jugular vein.

Our own countryman Morton, fays we fhould not bleed without evident reason.

(a) Venesectio interdum ob vehementiam inflammationis summe neccssaria est. Præsert vero venesectionem in brachio, illam enim in pede institutam, varia sæpius exceperunt incommoda, in primis si viscera, quod sæpissime sieri asserit, inflammatione quodam assecta suerunt. In delirio vero vel comate, jugularem quoque secare curavit, Navier, Comment. de rebus, &c. Pars 1. vol. 4. p. 340.

Indeed

Bleeding.

Indeed fuch was the state of the pulse with us during the fummer months, that I never faw a cafe in which blood was taken away nor would it be easy to conceive with what view the boldest, or the most ignorant practitioner would have dared to attempt it; for in those cases where the inflammation upon the furface is very great, the loss of blood can only contribute to the further depletion of the larger vessels, and thereby increase the debility and faintness which already exist in a most alarming degree; for the fmall veffels accumulating the blood more in consequence of their own action, than from the pulse of the heart, would not be affected by the usual mode of blood-letting; and the extent of the inflammation is much too great to allow us to have recourse to topical bleedings.

Sometimes

Complete Salar Stoppers a Stoppers

Sometimes where the fiery redness of the eyes and the flate of delirium feemed to demand the application of leeches to the temples, I have feen them applied; but never with any good effect. In one inflance where the conflant rejection of every thing that was fwallowed, even simple water, and the pain in the flomach during the efforts, feemed to indicate an inflammation in that organ, blood was taken away, notwithflanding the feebleness of the pulse. The blood was fizy. The bleeding was repeated; but no very evident advantage accrued to the patient. I think therefore we may conclude that when the scarlet colour upon the skin is intense, we cannot expect to benefit either from topical or general bleedings. O. o. said door out it of the party

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author - Lange to the one

In the autumn when the scarlet colour of the skin was seldom very intense, and often did not appear at all,
the tumesaction of the sauces, was generally much greater, and the pulse
considerably more firm. In this case,
if the patient was threatened with suffocation, if violent head-ache, or if
peripneumonic symptoms pointed out
the expediency of blood-letting, it was
sometimes done; but still with less advantage than one would have expected
in almost any other fituation; and
similar symptoms in other patients were
much more effectually relieved by

Vomiting. It is very remarkable that neither Navier nor Plenciz, after having entered more particularly into the method of cure than any other writers, have never fo much as mentioned

tioned the use of emetics.-Vomiting

Vomiting.

feems to be the remedy of nature : it flands foremost in her efforts to throw off the cause of the disease: it most amply fulfils the indications arising both from a confideration of the cause and of the effects. If we want to dislodge a poifon from the fauces, and the mucous membrane of the nose, and to prevent its descent to the stomach, how shall we do it so effectually as by emetics? if the poison already acting upon the nervous fystem, destroys the equilibrium of the circulating powers, how can we fo readily restore that equilibrium as by émetics? Does not the experience of every day confirm their efficacy in a variety of disorders dependant upon local congestions?

But not to proceed further with questions that cannot fail to be answered

Survey :

having extract more particularly into

in the affirmative, I will venture to affert that the liberal use of emetics, is the true foundation for successful practice in the Scarlet Fever and Sore Throat.

louded the lungs, to that declothing

In the very first attack, a vomit seldom fails to remove the disease at once
---if the poison has begun to exert its
effects upon the nervous system, emetics stop its further progress, and the
patients quickly recover. If it has
proceeded still further and occasioned
that amazing action in the capillaries,
which exists when the scarlet colour of
the skin takes place, vomiting never
fails to procure a respite to the anxiety,
the faintness, the delirium.

In autumn when the throat was more affected; when the tumefaction of the fauces was such that the patients could could not swallow but with the utmost difficulty: when the peripneumonic symptoms threatened suffocation, and bleeding withheld its accustomed aid; an emetic opened the gullet, and unloaded the lungs, so that deglutition became easy, and respiration free.

But it is necessary to add, that a Strong vomits. vomit only sufficiently strong to evacuate the contents of the flomach, is by no means adequate to these effects. The vomit must be powerful, and in ordinary cases repeated once in forty-eight hours. In those with more urgent fymptoms daily, and in the work cases twice in twenty-four hours. The patients never fail to express the relief they find after the operation, and the physician foon discovers it in the countenance and in the pulse. As to the formule of emetics the practitioner may

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vary

vary it as he pleases; but I generally combine the tartar emetic with the ipe-cacuanha, that the purgative property of the one may be obviated by the nauseating quality of the other, at the same time that I wish to secure a certain violence of action upon the system. (a)

(a) In the true quinty, or angine inflammatoria, I have used emetics for many years past with the greatest succels. If the vomit is given the first or second day of the difease, and the patient keeps in bed a few hours afterwards, drinks gruel freely, and takes the tartar emetic in smaller dofes to promote perspiration, he rises persectly cured. If the inflammation has proceeded to fuch a length as to prevent deglutition altogether; a little tarcar emetic repeatedly put back in the mouth and fuffered to dissolve there, will in time excite a vomiting. After the first discharge from the stomach, the patient is able to swallow a large draught of gruel, and thus to continue the operation. The most urgent symptoms are instantaneously relieved, and in a day or two fometimes with, and fometimes without repeating the emetic, he is quite well. If the inflammatory process has so far been suffered to proceed that matter is already formed; vomiting promotes the rupture of the abscess, and dispels the furrounding inflammation. There may be cales in which bleeding is absolutely necessary, but I never yes met with one of those cases. I never direct any other medicine either internal or external, except an injected gargle to promote the discharge of the viscid mucus.

PURGING.

vary is as he bleafes; but I cenerally

PURGING. I confider the action of purgatives as altogether repugnant to the curative indications in this difeafe. If the poison is received into the system in the manner I suspect; the operation of a purge, instead of discharging it, can only promote its diffusion along the alimentary canal---but waying that confideration, let us enquire what benefit can be expected from purgatives. Their most obvious operation is the emptying of the guts, and thereby lessening the tension of the abdominal muscles. But we have shewn that the anxiety, the debility, the faintness, are in a great measure owing to the want of fullness in the larger blood-vessels; and a want of pressure upon them will produce the fame effects. Hence the necessity of bandage when we hallily remove the water in an ascites---through the whole courfe PURGIN

Purging.

## AND SORE THROAT

general very regular in its discharges; and but if a purging spontaneously supervenes, the patients sink so amazingly sast, that it is not within the reach of art so support them. Under these circumstances I have known a person so little indisposed as to dine below stairs one day, and yet upon a purging supervening, to die before the next day noon. Sauvage after a vomit advises purges; but he adds that the patients very often died.

Sudorifics. Cordials. AlexipharMics. The medicines generally fignified by these denominations have but sweating.
little to do in the cure of the Scarlatine
anginosa. The patients are not disposed
to sweat when the scarlet prevails upon
the skin, nor do I know of any safe method by which we could attempt to excite a diaphoresis, even if we should ex-

Rect

F

pect it to be advantageous. Under the autumnal appearance, when the skin had none of the scarlet colour, a warm bed, and warm diluents would easily induce a moisture upon it, but I never saw any evident advantage to be the consequence.

CORDIALS feem to be indicated by the

great loss of strength and the feeble

pulse; but those who are aware of the true cause of this debility will not readily be induced to give them. I have known them given, but the certain consequence was an increase of the restlessness, of the delirium, and of the heat. Morron advises the mild alexipharmics, by which he means distilled waters and compound powder of contrayerva. Having observed the mild

and gently flimulating effects of the

contrayerva to be particularly grateful

Cordials

to the fauces, I have in many instances in used it, and mostly in conjunction with testaceous powders, which sit easy on the stomach, and counterast the tendency to purging; the camphor julep too gives nearly the same pleasing sensation to the throat.

DIURETICS. This too is a mode of relief altogether unnoticed by authors, and yet. next to emetics, the most to be depended upon in the cure of the disease. Diuretics Some of the first cases I saw were cases of the most malignant tendency. Amongst other remedies I gave the feneka root; and frequently with advantage. But I foon had occasion to remark, that it procured relief only when it occasioned a copious flow of urine. This led me to the trial of other diuretics: but out of the numerous articles that are enumerated under that title, the F 2

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the felection was difficult. Vegetable acids were neither pleasing to the palate nor grateful to the flomach; and their effects upon the bowels made me fear to use them. The vitriolic acid bid fair to affift us in feveral points of view, but upon repeated trials it deceived my expectations. Neutral salts did no better; indeed I did not venture to push them far, after observing that the common faline draught was but too apt to purge; and even in those cases where it could be used freely without that effect; the patients never feemed advantaged by The acrid vegetable diuretics, fuch as fquills, were likely to be too offensive to the stomach. In this situation it was. that some analagous reasonings, confirmed by the experience of a very fenfible apothecary to whom I mentioned the subject, first directed me to the ule of the vegetable fixed alkaly. Of this I conI contrive to give a small quantity in almost every thing the patient drinks, fo as to get down one or two drams every twenty-four hours. The volatile alkaly may likewife be given with advantage, but it is difficult to get a fufficient quantity of it fwallowed. The alline

ANTISETTICS. Acids have been noticed under the article of diuretics, and wine is included under that of cordials, therefore we proceed to the confideration of Peruvian bark, fixable air, and the duldified mineral acids. Louisippe and

It, was very generally believed

No medicine ever had a fairer or fuller trial in any difease, than the bark Peruvian had in our epidemic. The great proftration of firength, the feeble pulle. and the sharp heat upon the skin, with here and there a livid fpot, were thought to be such undeniable evidences of the putrid F3

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shed adv.

putrid tendency of the disease, and of the broken texture of the blood, that the bark was poured down with a most unsparing hand. And again in the autumn the increased disease in the throat, and the sloughed appearance of the tonsils, conspired to keep up the delusion. It was very generally believed that bark was the only medicine that could be depended upon, and mankind had not yet forgotten how many lives were lost in the first attacks of the ulcerated Sore Throat, before they became acquainted with the efficacy of the bark.

We have already remarked that it is not an easy matter to distinguish betwint the ulcerated fore throat and the Scarlet Fever and Spre Throat, notwithstanding the two diseases require such a very different mode of treatment.

BUTTER

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No medicine ever had a fairer of

The heat of the skin, the profiration of strength, and the feeble pulse have been considered before; it remains to observe relative to the livid spots and the floughed tonfils, that the former only appear where the cutaneous inflammation runs to its highest state, and are most probably owing to the effuled contents of a ruptured capillary bloodvessel: the latter are likewise the confequence of a very high degree of inflammation, which is often kept up by an improper use of the bark and cor-In some instances the inflammation attendant upon the disease is in itfelf sufficient to produce the sloughs, Does harm but they are generally the confequence of neglect or improper management; for if the patient from the beginning is treated upon the plan I advise, the floughs either never appear, or if they F A have

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have appeared never increase; and in twenty-four hours vanish altogether. But when that inflammation is fill augmented by large and frequent dofes of bark, it is aftonishing to see how much the tumefaction increases and how rapidly the whole lining of the fauces is converted into a flinking flough. is true nevertheless that many patients recover who take bark. The fact feems to be, that in mild cases an improper mode of treatment is not highly detrimental: it is only in the more dangerous state of the disease that we can do much harm. And I am ready to confess that in two or three of the first bad cases I saw, misled by so many marks of putrescency, I gave the bark; but the confequences were not fuch as could justify a continuation of its use.

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fevers where circumfiances forbide the

Plenciz \* takes a good deal of pains to persuade us to the use of the bark; notwithstanding his general plan is that of the antiphlogistic kind; but he fays that bleeding ought to be premiled. At the end of his book he gives us feventeen histories, fix of which are instances of the simple Scarlet Fever of Sydenham; two of the dropfy confequent to our epidemic, and nine of the true epidemic fever. To only one bedieled of these he gave the bark, and that patient died. Morton met with some cases in which the sever intermitted. and then the bark was thrown in fuccelsfully. great avide bowellewl smit they food deliked them, and even the

Finding that no good was to be expected from the bark, recourse was had to fixable air, which I had often used in

Tract. de Scarlatina, p. 103.

fevers

fevers where circumstances forbade the Fixable air use of bark; its sedative and antiseptic properties are now well known, and I expected to turn them to good account. But I was not at that time sufficiently acquainted with the nature of the disease. Fixable air therefore was used, but it seemed to do neither good nor harm.

Dulcified acids. The dulcified mineral acids in small quantities produced no advantage; given more freely they increased the heat and inflammation. Bottled small beer and cyder were frequently asked for by the patients, and the first or second time swallowed with great avidity; but they soon disliked them, and even the attendants could not fail to remark the increase of heat and restlessness that they occasioned.

de Smil was b 192.

OPIATES.

and this store when and friend with the red of a

OPIATES. In case of great inquietude and wakefulness, both Navier and Plenciz advise to give opium in small doses; Opium but I never saw it essect the purpose for which it was given; on the contrary it visibly increased the distress of the patient.

silled to avoid a detail that would car-

Bristers in the summer appearance of the disease, are universally detrimental; they never fail to hasten the delirium, and if the case is one of the worst kind, they too often confirm its satal tendency. But when the pulse is so Blisters, seeble that the nicest singer can hardly count its strokes for a quarter of a minute together; when the oppression and anxiety of the patient is such as words can but ill describe; when the physician expects that a sew hours more will annihilate a life already sunk to so low

Taid dim

an ebb, and when the friends will perhaps censure him if he forbears to try the efficacy of an application to universally, and I may add to indifcriminately used; it is not easy to result the importunities of such symptoms under such circumstances.

Hurtful.

But to avoid a detail that would carry me to too great a length, suffice it to say, that after frequent opportunities of observing the events of cases in other respects similar, the blistered patients very often died, whilst those who were not blistered never sailed to recover.

Bliffers

In the autumnal feason, when the inflammation was less generally diffused through the body, blifters were less detrimental. If the brain was affected foon after the attack they did much mischief,

mischief, but if the inflammation was pretty much confined to the fauces, a bliffer was frequently applied round the throat, but with less advantage than the practice in quinkes, ulcerated fore throats, and other local inflammations would teach one to expect.

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GARGLES. In the fummer the affection of the throat was frequently fo tri- Injected gargles. fling as not to demand any particular attention; but when the inflammation and fwelling in the fauces became a principal cause of complaint, the use of gargles was very grateful to the patient. A decoction of contrayerva fweetened with oxymel of fquills is what I have most frequently used; sometimes barley water acidulated with the marine acid; and fometimes the tincture of roles. When these gargles are forcibly injected by means of a large pewter TERROR fyringe

fyringe with a long pipe to reach over the tongue, it is amazing to see the quantity of viscid ropy stuff that is discharged, both from the fauces and nostrils. When there is a great disposition to the formation of sloughs in the throat, Navier advises (a) to gargle with a mixture of highly rectified spirits of wine camphorated, and oxymel; which he says never fails to stop the progress of the gangrene. I am inclined to believe it is a good application, but have never had occasion to try it. After the sever abates, Sauvage uses a gargle of time-water sweetened with honey.

POULTICES. Cataplasms of different kinds have been applied round the neck, but I cannot add with any par-

ASSE

ticular

<sup>(</sup>a) --- Progressum vero hujus internæ gangrenæ quam certissime impedit gargarisma ex oxymelle cum adjecto spiritu vini camphorato, qui vero Hossmanni methodo sale alcali præparatus esse debet, ne aquosis mixtus lactescat. Navier in loc, citat.

I think the less additional covering is made to the throat the better.

and blue is large to make a see an interpolation.

WARM-BATHING. The immersion of the feet and legs in warm water, though fufficient to procure sleep and abate the delirium in feveral kinds of fever, is not attended with any fuch defirable effects in this; nor did I ever perceive it to do harm. In cold weather, when there was no inflammation upon the skin, and the legs and feet were cold, it rendered the patient more comfortable; and I am much inclined to believe that in the greatest degree of scarlet efflorescence which existed in the fummer months, the use of a tepid bath would have been productive of the happiest effects: but this is a matter of opinion only. and onew parties

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TEMPERATURE.

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TEMPERATURE. In the heat of fummer it was hardly possible to keep the patients fufficiently cool. A mattrefs to lie upon was found preferable to a feather bed, with the lightest covering for the body, and a free circulation of air. Patients that could fit up, were allowed only to lie down occasionally. and those whose strength would admit of it, were ordered frequently out of doors. This method a little modified, did very well through the greatest part of autumn; but when the winter cold took place, it was necessary to keep them more in bed, and in a room moderately warmed.

DIET. Those who were only slightly indisposed were kept pretty much from animal food, and sermented liquors. Those in a worse situation were allowed tea, coffee, chocolate, milk and water, gruel,

gruel, barley water, &c. and occasionally weak wine whey, or nitre whey. But nothing was more acceptable than a full draught of water fresh drawn from the spring. In this the patients were indulged in every exacerbation of heat, restlessness, or delirium, and it seldom failed to procure a temporary abatement of these distressing symptoms.

When the Fever ceases I generally give a few grains of calomel, and work it off the next day with Rochelle salts or any other mild purgative: If the nights are still passed with watchfulness, opiates are directed; and in the day time bark with small doses of salt of steel. If the debility is considerable wine is allowed rather liberally; but nothing affords such immediate relief as the application of blisters.

## Treatment in the Dropfical State.

of the day of the sur and the

WHETHER the leucophlegmatic appearances are necessary confequences of the Scarlet Fever and Sore Throat, in bodies particularly predisposed to become dropsical; or whether they are the result of negligent or improper management, I will not take upon me to determine: But it may be worth observation, that I never yet have met with an instance of a patient becoming dropsical, who had been treated, during the Fever, according to the method advised in the preceding pages.

When called upon to visit patients in this situation, I commonly begin with giving calomel at night, and a mild purgative in the morning.

If a febrile pulle attends the other lymptoms, an emetic is uleful; the faline draught, and other neutral diuretic falts. In case of great debility, comatofe, or peripneumonic fymptoms, large and repeated blifters are of infinite service: But in the common cases, when the dropfical fymptoms are the principal cause of complaint; fmall doses of calomel and rhubarb, occasionally to keep the bowels open; dilute folutions of fixed alkaly; fquills; Seltzer water; and other diuretics in daily practice, must be adapted to the dispofition and temperament of the patient. When the urine flows freely, fleel and other tonics must be employed, and the recovery will be greatly promoted by gentle exercise, high-seasoned food, wine, and the wearing of flannel in contact with the fkin.

I can-

I cannot conclude this subject without noticing a remedy strongly recommended by Plenciz; t but not having had occasion to try it, the reader must depend upon his account of it.

R Rhei electi

Spiritus falis coagulati aa drachmas duas Mercurii dulcis

Auri fulminantis

Extracti scillæ aa drachmam dimidiam m. fiant pilul. c. rob juniperi, pondere unius alteriusve grani.

In the exhibition of this medicine the following precautions, are to be observed.

(a) Firstly. One or two of these pills are to be given every second or third

<sup>+</sup> Tractatus de Scarlatina. P. 121.

<sup>(</sup>a) Primo, Quod una alterave harum pilularum omni bihorio, aut trihorio, pro diversa ætatis aliorumque cirhour;

hour; according to the age and strength of the patient. This quantity ought . to procure three or four stools every day; but if it fails to do that, either the dose must be increased, or some purgative, fuch as extract of jallap, fulphurated scammony, or aloetic pill with fcammony, must be added: by this means a falivation will be prevented. But

Secondly, the more effectually to prevent a falivation, the patient after each dose of the pills ought to drink some ounces of tea prepared with juniper berries, or a decoction of grass roots, warm.

cumstantiarum, ratione exhiberi debeat, quam dosim tres quatuorve fedes quotidie sequi debent, quæ si non succedant, tunc vel earum dosis augeri debet, vel prædictis pilulis magisterium mecoacanæ, aut diagridium sulphuratum, aut pilulæ Cochiæ addi possunt. Qua ratione dein falivatio impedietur. Quare

Secundo, Ut eo certius falivatio impediatur; debet æger post assumptas pilulas bibere calide aliquot uncias infusi baccarum juniperi, aut decocti-radicum graminis. Item

Thirdly.

Care gainer are

Thirdly. After taking these pills for two or three days, they must be omitted a day or two.

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Tertio, Postquam bidui aut tridui his pilulis usus suerit, debet ab earum usu una, alterove die abstinere.

Quarto, Si ab usu hujus remedii nimiæ turbæ in corpore concitari videantur, poterunt tales sopiri remediis paregoricis.

Tandem si in his, aliisque similibus affectibus notabilis febris adsit, debemus ab usu hujus remedii abstinere, quia timendum est, ne exinde febris augeatur. - - - - - ab usu prædicti remedii intra unam alteramve diem ingens copia seri, tam per urinas quam per alvum eyacuari solet. - - - - - - Adeoque is not only in cachectic, leucophlegmatic, and dropfical cases that this remedy is useful; but in the most obstinate alvine and urinary obstructions; provided they are not accompanied with inflammation.

So likewise in the suffocating catarrh, and in the humoral ashma, where chermes mineral, tartarised sulphur of antimony, squill, gum ammoniac, and other, even the most powerful remedies, produce no good effect, the aurum sulminans, with a grain or two of calomel affords an immediate relief.

non tantum in cachexia, leucophlegmatia, et hydrope, sed et in contumacissima alvi et urinæ obstructione, si inslammatio aberat, illud in usum vocabatur.

Item, In catarrho suffocativo, in asthmate humoroso, ubi chermes minerale, sulphur antimonii tartarisatum, scilla, gummi ammoniacum, aliaque, alias efficacissima remedia, inertio erant, aurum sulminans cum uno alterove grano mercurii dulcis, præsentaneum erat remedium. Plenciz. Tractatus 3. p. 124.

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estifuncted, with dearn an view against

He further adds that this medicine was a fecret of Dr. Weber's of Furnberg, who used it with great success in a variety of obstinate chronical diseases,

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## CASEI.

Live Leading Co. Co. Socialist

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A Young lady 12 years of age, was fuddenly seized in the evening with weariness, sickness, sore throat, and head-ache. A vomit was given the following day, and afterwards the bark. The third day the nausea still continuing, and the strength being greatly impaired, the vomit was repeated, the bark continued, and red wine negus directed for common drink,

The fourth day at noon I first was called in, and found her delirious, with a considerable degree of stupor. Her eyes of a fiery redness, her lips parched, her skin universally tumesied, of a full scarlet colour, and almost intolerably hot. Her tongue dry; her throat the colour

colour of her skin; her respiration quick, short, and sobbing; her pulse so rapid, so seeble, and so unsteady, as not to be counted.

I directed a vomit to be given immediately; (a) a large blifter to be applied betwixt the shoulders; a solution (b) to be put into a quart of white wine whey, and the whole to be taken in 24 hours.

Fifth day. Her condition nearly the fame. Had had no flool; urine small in quantity. The alkakine solution was continued; sour grains of seneka root were given every sour hours, and ten grains of James's powder at night.

<sup>(</sup>a) R. Rad, Ipecac. Gr. vi.
Tart. Emet. Gr. i. M. f. puly.

<sup>(</sup>b) R. Sal Absinthii z ii.
--- vol. ammon. 38.
Aquæ fontan. 3 ii M. f. folut.

The weather being very hot, the doors and windows of the room were conflantly kept open, and as much cold water as she would drink, was allowed every time she became more restless and delirious than usual.

Sixth day. Urine more plentiful. Her pulse could now be counted pretty certainly at 140 strokes in a minute. She had one stool in the night. Two blisters were applied to her legs, and a spoonful or two of a vomiting mixture (a) directed to be taken every four hours, or so as to keep up a pretty constant nausea.

Seventh day. Passed a better night. Pulse 123. Eyes less fiery; supor a-

bated.

<sup>(</sup>a) R. Tart. Emet. Gr. iii.

Vini Ipecac. 3 vi.

Cretæ ppt. 3 ii.

Aq. fontan. 3 vi.

Syr. e Cort. Aurant. 38 M.

#### OF THE SCARLET FEVER

bated, and she could answer sensibly to two or three questions. The vomiting mixture was repeated.

Eighth day. Got some sound sleep for the first time. The heat and redness of the skin considerably abated. Pulse 90; steady and sufficiently strong. Begins to call for sood. As her belly had all along been rather costive, the sollowing powder was directed. (a)

Ninth day. The feverish symptoms entirely gone. The skin peeling off. Urine plentiful, and depositing a farinaceous sediment. The following powder was ordered to be taken thrice every day. (b)

dayed.

<sup>(</sup>a) R. Sal. Polychrest. 3B.
Rad. Rhei 3 i.
Calomel. ppt. Gr. iii. M. f. puly. statim sumend.

<sup>(</sup>b) R. Cort. Peruv. fubtilifs. pulv. 3i. Rad. Contrayerv. Gr. x. M. i. p.

dammarka badauellaluert erae erael

In a few days she was carried out, and by the assistance of bark and steel soon recovered her accustomed health; but not without the loss of her hair.

REMARKS. The imminent danger that this young lady appeared to be in, occasioned the blisters to be directed: and I had not at that time feen for much of the disease as could enable me to decide with precision against their use. Fortunately for the patient, they never rose at all. She was evidently better after every vomiting, and after every draught of cold water. She was very defirous one day of bottled perry: it was allowed her, diluted with water; but an increase of her restlessness, heat, and short breathing was so evident to those who had the care of her, that they foon refused to give it her. fauces fauces were never floughed, nor much tumefied. One of the nurses was foon afterwards seized with the same complaints, but by an early application of nearly the same remedies she presently recovered.

# CASE II.

en ences. The inspinent

MR. S——, a strong man, about 34 years of age, was seized with the usual symptoms of the worst kind of Scarlet Fever and Sore Throat. On the evening of the first day of the disease he called upon his apothecary, who gave him an emetic. The second day diuretics were prescribed, a gargle to his throat, a blister to his back; and in the evening the vomit was repeated. Vomiting being observed to be followed by a remission of the symptoms, he took two vomits upon the third day, and

and expressed himself relieved after each. Upon the fourth day I first faw him, and found him with a very quick feeble pulse, a skin universally scarlet and tumefied, exceedingly hot, breathing fhort, throat still fore; eyes red, great restlessness and delirium. A strong vomit was immediately prefcribed, fome powders composed of contrayerva and camphor, (a) and a diaretic folution.

He passed a restless night, but the fever abated the following day; ceafed in a few hours afterwards; his skin peeled off, and in a short time he recovered perfectly.

<sup>(</sup>a) R. Rad. contrayery fubt. pulv. Gr. xv. Camphor. Gr. v. M. f. pulv. fecundis vel fertiis horis fumend. es remailed the second of

R. Sal. absinthii 3 ii.

<sup>-</sup> vol. Ammon. 3 i.

Aquæ fontan. 3 i. f. folut. in lib. ii. Seri vinoli commiscend, et bibat æger liberaliter liquoris.

REMARKS. This was one of those cases in which the violence of the attack and the rapidity of the symptoms threatened the greatest danger. The alleviation of the diffress of the patient after every vomit, was a proof of the propriety of that mode of treatment; but the quick recurrence of disagreeable fymptoms argued the fatal tendency of the disease. The blister was not applied, and to the omission of that I attribute the fafety of the patient; for where the violence of the inflammation can but barely be counterbalanced by the means we can command, the additional stimulus of a blister is sufficient to destroy the equilibrium.

## CASE, III.

A Boy fifteen years of age, at a boarding-school about six miles from this place, was seized on Monday the 26th and vomiting. He continued to play with his school-sellows till the predominancy of the sickness prevented him. He was cold and hot by sits; he was weary; complained of head-ache and a slight soreness in his throat.

Second day. The fymptoms continued with the addition of prickling and itching in his skin, which turned red where he scratched it. This day he took an emetic by the advice of his apothecary.

. Third day. He was brought in a chaife to Birmingham.

Fourth day. I faw him, when he complained of great head-ache, fickness at times, and unusual weariness. The whole of his skin was of a deep violet H colour,

colour, tending towards blackness. His tongue moist, of a whitish brown. Lips dry and parched. Throat nearly the colour of his skin, tumefied but not ulcerated or sloughed. Eyes pretty clear. Flesh not very hot. Pulse 120, moderately strong. He was ordered to take two spoonfuls of the vomiting mixture (a) every half hour, and afterwards an ounce of the decoction (b) every two hours. Cold water was allowed when he called for it, gruel and weak wine whey.

Fifth day. The vomit worked him a good deal, and he was somewhat reliev-

<sup>(</sup>a) R. Vini Ipecac. 3 i.
Tart. Emetic. Gr. vi.
Aquæ fontan. 3 vii. M.---

<sup>(</sup>b) R. Rad. Senekæ non contust 3 i. coque ex aquæ fontan. shiii. ad shi. et colat. adde Succ. Glychirr. 9 ii. Sal, Absinthii 3 i. B M.—

restless, but got some sleep towards morning. He had made plenty of urine, but it smelt so strong the nurse had it thrown away. A little redness was now visible in his eyes, towards the outer corners. Pulse soft; more sleady than yesterday, 108. Lips not so dry. Throat less tumesied; its colour, as well as that of the skin less intense. Had a small costive stool this morning. Repeat the vomit this evening, and continue the decoction.

Sixth day. Passed a good night. Urine in good quantity, less offensive to the smell, and its appearance nearly that of a healthy state. Throat quite well. Pulse 68, sirm. Skin turning brown. Appetite returning. Fisteen grains of rhubarb, and three of calomel were given this night at bed time.

H 2

Eighth

In the beginning of the picht

Eighth day. Continued free from complaints: slept well, eat well. Pulse 65. This morning, white blisters appeared upon several parts of his hands and singers, which when cut discharged a small quantity of clear water.

Remarks. The livid colour of the skin was thought in this case to indicate the highest degree of putrescency, and the most imminent danger to the patient: but I had learnt long before this to believe that the disease had nothing putrid in its nature; and when I considered the savorable appearance of the eyes, and the moderate velocity of the pulse, I could not coincide with the opinions that had been formed of the event. The white blisters have been mentioned by Plenciz, but he believes they never contain any stuid, and having

having frequently found that to be the case, I subscribed to his opinion; but as the blisters in this patient were filled with a watery fluid, I suppose they were so in others; only we did not happen to examine them until the fluid had been absorbed and evaporated.

## dry; Helli not very hot sheeppule is on a mia VI. Taga Ah

H 3 Fourteenth

Fourteenth day. I found her in a considerably sleepy state; much averse to being stirred. Her breathing distincult and rattling, particularly when lying down, for which reason she was generally kept upon the lap. Her skin dry; slesh not very hot: her pulse 136 in a minute. Tongue dry and brown in the middle; skin of her lips black and ragged. She was universally bloated, but her legs most so towards night. Her sauces appeared tumesied, and by the affistance of an injected gargle she throws up viscid mucus. Urine small in quantity, appetite altogether wanting.

She was directed to take four grains of James's powder, and to repeat the dose every hour for three times; afterwards two spoonfuls of a diuretic solution

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tion (a) were given every fecond or third hour.

Fifteenth day. But little alteration.
Continue the medicines.

Sixteenth day. Pulse 130. Urine more plentiful. In other respects nearly the same. (b) Six grains of sossil alkaly purified, were directed to be taken in solution every sour hours, and a gargle with oxymel of squills frequently injected into the throat.

Seventeenth day. Tongue clearer. In other respects but little alteration.

Eighteenth day. Discharges a great quantity of viscid, white, opake stuff

Sacch alb. 3 ii. ß

Spt. Lav. comp. 3 ß

Aq. hordeat. 3 vi. M.---

<sup>(</sup>b) R. Calomel. ppt. Gr. iii.
Pulv. Teft. Oftr. Gr. vi. M. f. p. flatim fumend.
H 4 from

from her throat and nostrils. Tongue quite clean. Flesh not hot. Belly regular. Swelling something abated. Complains of great foreness in her wrists and ancles. Pulse still 130. She was directed to drink freely of Selfzer water.

Nineteenth day. Had a better hight.
Pulse 120. Went out in a chaise and
seemed resreshed by it. The seepiness
and swelling abated.

sojed duto the throat.

Twentieth day. Passed a good night. Pulse now only 108, and much firmer. Urine plentiful and depositing a copious lateritious sediment. Soreness of her limbs, and swelling of her legs considerably decreased. The bark was now directed, Seltzer water for her common drink, and daily exercise in a chariot.

Twenty-

might Makes more water than ever.

Appetite begins to return, or have it.

Twenty-second day. Pulse 96. Stood alone to-day for the first time.

Twenty-fourth day. Appetite very good. Pulse 84. Strong enough to walk about the room. Skin peeling off.---From this time her further recovery was rapid and uninterrupted.

Taken ill at a boarding-school some distance from Birmingham, so that I had no opportunity of knowing how the was treated in the beginning, but when I first saw her she was taking bark medicines. Her elder listen sell a victim to the same disease a short time before, and she I understood took bark and was blistered. A younger sister was taken ill upon Tuesday the 10th of November.

November. The third, fourth, and fifth day, the took a firong vomit; was allowed to drink freely of Seltzer water. Vomits were afterwards given every other day to promote the discharge of mucus from the throat and nostrils, and thus the cure was effected without the assistance of any other medicine.

#### CASE V.

MR. M..., 20 years of age, was feized in the evening of the 15th of November with flight alternating heats and colds. Passed a very restless night, hardly sleeping sive minutes at a time. The next morning he selt his throat fore; complained of sickness; great pain in his head, back and limbs. Still hot and cold by sits. The third day his skin began to turn red, and he could not rest a minute for the trouble-some itching and pricking all over him.

## AND SORE THROAT.

Fourth day. I first saw him. His fkin was now univerfally scarlet and intensely hot. His eyes red; his tongue white, except at the end and at the edges. His fauces of a full scarlet colour and swelled, but without any appearance of floughs or ulcers. He complained of thirst, and was frequently fick, his pulse 120; fmall, but not very feeble. He was exceedingly restless, and delirious whenever he closed his eyes. He had taken one vomit; powders of seneka and contraverva, and a folution of falt of wormwood. These medicines were ordered to be continued, and a fronger vomit given tomight of only live is the same

Fifth day. He vomited much, and afterwards had two purging stools. a bad night from reftleffness and painful foreness in all his limbs, which still continues. Throat less sore, and less fwelled.

swelled. Scarlet colour of the skin nearly the same; but on the inside of the wrifts there are a few very minute pullules with white heads, vilible through a magnifying glass. Head eafy; eyes not impatient of the light. Inclined to fickness when he swallows any thing. Urine plentiful, of a natural colour, with a light mucous cloud floating in it. . He was ordered to drink b gruel, tea, and cold water. To take a powder (a) every foun hours and a brwine glass full of folution (b) at the intermediatentimes. The formula s

Sixth day. Paffed awreftlefs inight, and fomewhat delirious. Inclination to fickness ceased. Urine very plenti-

dischlored.

Jeft. Oftr. ppt 38, M. f. pulv.

<sup>(</sup>b) R. Sal, Sodæ 3 ii. Extr. Glychirr. 3i. orl argunt had a Aq. fontan.

<sup>----</sup> Menth. vulg. simpl. az 3 iii. ß Cinnam. SparziJM. 201111100

ful. The scarlet on the upper part of his body less intense: that on his legs and thighs the same. Pulse 108. Complains chiefly of soreness all over him, but says he is much better. Let the same medicines be continued.

Seventh day. Little or no sleep in the night, being teased with the appearances of strange images the moment he closed his eyes. Scarlet colour turning brown. Great soreness about his neck and shoulders, but in other respects much better; and able to sit up several times to-day. Pulse 98. He was ordered to take a purging bolus (a) at bedtime, his usual medicines the following day, and a composing draught (b) at night.

Ninth

<sup>(</sup>a) R. Rad. Rhei Gr. xii.
Calomel, pp. Gr. vi.
Conf. Rofar. 3 i.
Syrup. ut f. Bol.

<sup>(</sup>b) R. Syrup. e Meton. 3ii,
Tinct. Thebaic. gutt. xv.
Aquæ Menth. vulg. fimpl.
fontan. aa 3 vi. M.

Ninth day. Physic worked moderatedly. Passed the last night comfortably. Skin universally brown. Pulse 94. Eyes watery, and impatient of the light. Soreness partly gone. Appetite returning. The composing draught to be given again at night, and the next morning to begin with the tincture of bark and Virginia snake-root.

Eleventh day. Appetite good. Pulse 80. Eyes less tender. Skin peeling off. Tongue very sore, but nothing remarkable to be seen upon it.—From this time he continued mending daily, and was soon restored to health.

### CASE VI.

MRS. — a married lady, about thirty-five years of age, felt a fensation of rawness in her throat on Friday evening the 20th of November; but

but palled a good night. The next morning The was chilly, and weary, with aching all over her. These symptoms continued till eight at night, when he became very hot, and continued fo until Sunday morning. The foreness in her throat was still but trifling. The preceding night the had taken five grains of James's powder, which excited a pretty copious perspiration. She continued very much indisposed all Sunday, the feverish symptoms ran high, and a blifter was applied on the right fide of her neck. On Monday the feverish symptoms continued nearly the fame: The left fide of the fauces was now as much affected as the other, a blifter was therefore applied to the left fide of the throat.. Some white specks which had appeared in the throat before, were now increased so as to spread over both tonfils, and the back of the fauces. In this fituation I was defired

to vifit her. I found her labouring une der great anxiety; her countenance pale, her respiration difficult, her voice inarticulate, her pulle 180, rather, irregular, but not very feeble. She had palled the night with fuch oppreffive feelings about her cheft and flomach; that she durst not attempt to sleep, and her deglutition was now fo much impaired, and the attempt fo extremely painful, that nothing less than the greateft degree of fortitude could enable her to fwallow. She had hitherto taken bark freely, but it purged her: Small doses of laudanum were then added to prevent that effect, and the bark was continued to the amount of a dram of the powder every four hours, and two ounces of firong decoction with tincture in the intermediate times. When it was impossible to swallow any more bark, cordial draughts composed of confectio

fello cardiaca and volatile falt were directed. She had felt her oppression and distress increase after every dose of the bark, but filled with the idea of her disease being putrid, and that nothing but the bark could stop the progress of the gangrenous sloughs, she had perfevered with unusual assiduity in the method prescribed.

I immediately ordered a vomit (a) which cost her very great exertion to get down. It acted in a short time, and she was sensibly relieved. When the sickness abated she took half one of the cordial draughts that was in readiness; afterwards a powder (b) every two hours,

<sup>(</sup>a) R. Tart. Emet. Gr. ii.
Vini Ipecac. 3 i.
Aq. fontan. 3 vi.
Acet. Scillit. 3 ii M. --.

<sup>(</sup>b) R. Rad. Senek. fubt. pulv. Gr. v.
- - Contr. pulv. Gr. vii.
Cretæ ppt. 3 ß M. f. pulv.

and used the gargle (a) very frequently with the assistance of a syringe.

Fifth day. Slept very comfortably for four hours in the night. The great oppression and anxiety removed. The sloughs in the sauces beginning to separate at the edges; her voice still inarticulate, and the act of deglutition considerably painful, but not so much so as to prevent her getting down her medicines and a sufficiency of liquid nourishment. Pulse 120.

From this time she continued mending. On the seventh day she was universally better and slept very comfortably. On the eighth day she eat solid

<sup>(</sup>a) R. Rad. Contrayerv. 3 B.

Aquæ fontan. 3 xii. coque ad
3 viii et colat. adde

Oxymel. Scillit. 3 B.

Sal. Ablinth. 3 i M.

food for her dinner; and on the ninth the floughs in her throat were all cleared away. In the beginning of this difease her urine was small in quantity, but as she grew better it became very considerable. The syringing occasioned very great quantities of viscid mucus to be discharged from her throat and nostrils. Through the whole course of the disease she had a great tendency to delirium whenever she attempted to sleep. As she recovered her skin peeled off; and she was tormented for some days with a great soreness of her tongue.

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REMARKS. The tendency to the formation of gangrenous floughs in the throat, seems to be nearly proportioned to the violence of the inflammation. If this inflammation is increased by improper treatment, formed upon the idea of the disease being putrid, the consequences 134

flammation, and of the gangrene. But if emetics are exhibited at first, and occasionally repeated. I never fee the sloughs continue for twenty-four hours. It is observable that in this case the desquamation of the skin took place, not withstanding there was neither eruption nor discoloration at any time of the disease.

THE END.



